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(54) Downhole current generator

(57) A downhole current generator (34) generates power in a wellbore and includes a power section (36) and a generator section (38). The power section (36) has a sleeve (44) slidably disposed within a housing (42) which oscillates in response to the application of fluid pressure to the current generator (34). A piston (48) is slidably attached to the sleeve (44) and oscillates relative to the sleeve (44) and the housing (42). The piston (87) extends longitudinally into the generator section (38) and has a plurality of magnets (78) attached thereto which oscillate with the piston (48). Wire coil sections (82) are fixed relative to the housing of the generator section (38) and are positioned between the oscillating magnets (78) such that a current is induced in the wire coil sections (82) upon oscillation of the magnets (78).

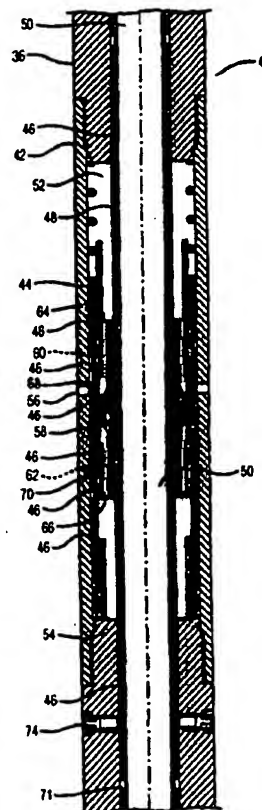


FIG. 2A

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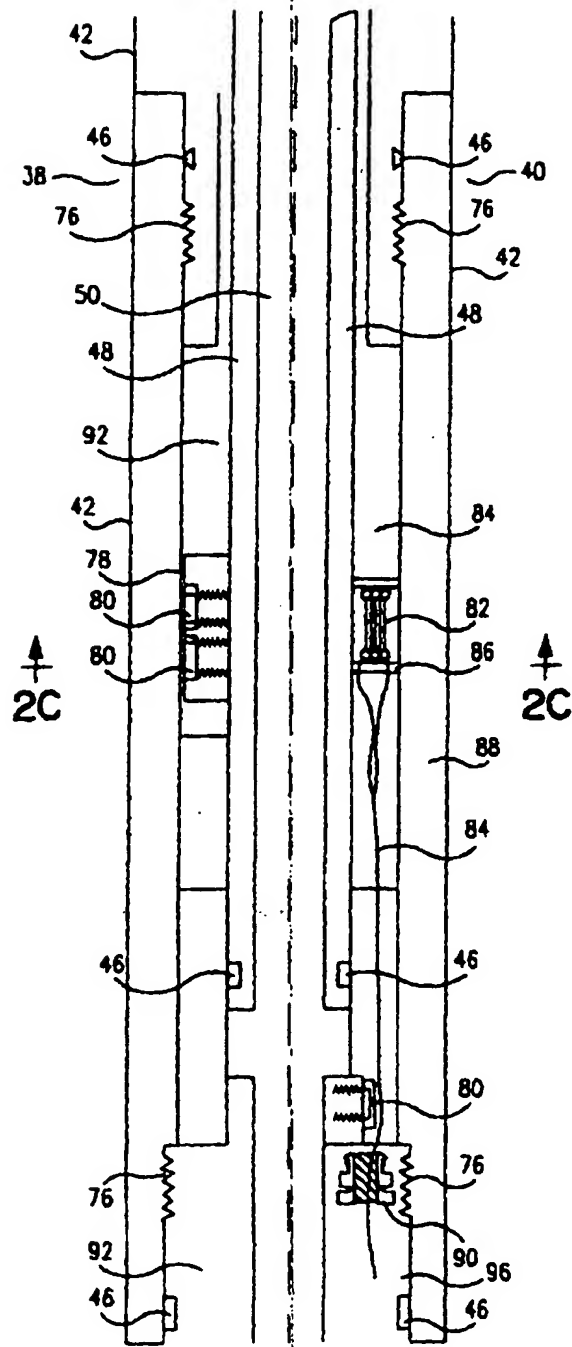


FIG. 2B



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# EUROPEAN SEARCH REPORT

Application Number  
EP 98 30 7453

DOCUMENTS CONSIDERED TO BE RELEVANT			
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			TECHNICAL FIELDS SEARCHED (Int.Cl.8)
			E21B H02K
The present search report has been drawn up for all claims			
Place of search <b>THE HAGUE</b>		Date of completion of the search <b>20 July 2001</b>	Examiner <b>Contreras Sampayo, J</b>
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EPQ FORM 1503 03 82 (P04C01)

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EP 98 30 7453

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